

We claim:-

1. A method for cooling an internal combustion engine, a cooling liquid which comprises nonionic corrosion inhibitors being allowed to circulate in a cooling circulation in thermal contact with the internal combustion engine, and the cooling liquid being at least intermittently deionized.
2. A method as claimed in claim 2, wherein the cooling liquid used is an aqueous coolant composition which comprises from 10 to 90% by weight of a coolant concentrate based on alkylene glycols or derivatives thereof or on glycerol, the coolant concentrate containing from 0.05 to 10% by weight, based on the total amount of concentrate, of one or more carboxamides and/or sulfonamides, if required in addition to further nonionic components.
3. A method as claimed in either of claims 1 and 2, wherein the cooling liquid is deionized by means of at least one ion exchanger.
4. A method as claimed in any of claims 1 to 3, wherein the cooling liquid is deionized by means of a liquid deionizing agent.
5. A method as claimed in any of claims 1 to 4, wherein the cooling liquid is deionized electrochemically.
6. A liquid-cooled fuel-burning engine unit comprising an internal combustion engine (11) and at least one cooling circulation (14) having a cooling liquid which comprises nonionic corrosion inhibitors, at least one deionizing means (28) for cooling liquid being arranged in said cooling circulation (14), the latter being in thermal contact with the internal combustion engine (11) at least in a section.
7. Fuel-burning engine as claimed in claim 6, wherein the deionizing means (28) comprises at least one ion exchanger, preferably a mixed-bed resin ion exchanger.
8. Fuel-burning engine as claimed in either of claims 6 and 7, wherein the deionizing means (28) is in the form of a contact cell in which a liquid deionizing agent can act on the cooling liquid.

13

9. Fuel-burning engine as claimed in any of claims 6 to 8, wherein the deionizing means (28) comprises at least one electrodialysis cell.
- 5 10. Fuel-burning engine as claimed in claim 9, wherein the electrodialysis cell comprises an ion exchanger.

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